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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/075,218	02/14/2002	Thomas S. Kobayashi	SC11931TP	8301	
23125	7590 11/06/2002				
MOTOROLA INC AUSTIN INTELLECTUAL PROPERTY LAW SECTION			EXAMINER		
			FARAHANI, DANA		
7700 WEST I AUSTIN, TX	ARMER LANE MD: T 78729			PAPER NUMBER	
			2814		
			DATE MAILED: 11/06/2002	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

0	Application No.	Applicant(s)	,			
	10/075,218	KOBAYASHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dana Farahani	2814				
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet with	the correspondence address	•			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 26	August 2002					
2a)⊠ This action is FINAL . 2b)	his action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) <u>1-20</u> is/are pending in the application	on.					
4a) Of the above claim(s) 10 and 19 is/are wi						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority docume	nts have been received.					
2. Certified copies of the priority docume	nts have been received in Ap	plication No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)	•					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Ir	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)				



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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-4, 8, 9, 11-14, and 17, 18, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee et al., hereinafter Lee (U.S. 6,222,212), previously cited.

Regarding claims 1 and 18, Lee discloses in figure 8B a semiconductor device comprising a substrate 803 having circuitry 811 and 812 formed in; a passivation layer 804 formed overlying at least a portion of the substrate; and a fuse 813 formed overlying the passivation layer.

Regarding claims 2, 11, 12, and 17, recessed areas, as shown in the figure, is formed in the passivation layer, and portion of the fuse (connectors 805 and 808) are in the recess areas.

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Regarding claim 8, interconnects 805 and 808 are connecting a first and a second portion of the fuse to the circuits.

Regarding claim 9, the fuse only is connected to the circuitry.

Regarding claims 3, 4,13, and 14, see column 5, lines 35-39.

Regarding claim 20, see column 9, lines 51-67; and column 10, lines 1-6.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5-7, 15, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee.

Regarding claims 5, 6, 15, and 16, Lee discloses the claimed invention except the fuse comprises metal nitride. It would have been within the level of ordinary skill in the art to use metal nitride instead of metal oxide (see column 5, lines 43-44).

Regarding claim 7, Lee discloses the claimed invention except for the metal of the fuse having a thickness of less than 1 micron. It would have been obvious matter of design choice to make the metal layer less than 1 micron, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art.



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Response to Arguments

5. Applicant's arguments filed 8/26/02 have been fully considered but they are not persuasive.

Applicant argues that Lee fails to teach all the limitations in claims 1, 11 and 18. Specifically, Lee fails to teach packaging material on the fuse element. Lee discloses in figure 8B, that 806 is a substrate (see column 12, line 17). The Office reminds the Applicant that a substrate could be packaging material. For instance, resin glass is often used as a substrate material, and obviously resin glass is a packaging material, too.

Applicant further argues that the packaging material are not on the programmable interconnect element 813. This is not found persuasive, since as can be seen clearly in figure 8B, packaging material 806 is on element 813.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any





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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Farahani whose telephone number is (703)305-1914. The examiner can normally be reached on M-F 9:00AM - 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (703)306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9318 for regular communications and (703)872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

Dana Farahani October 30, 2002

LONG PHAM
DRIMARY EXAMINER